

**TETRA TECH, INC.**

4213 State St., Suite 205
Santa Barbara, CA 93101
Telephone (805) 681-3100
FAX (805) 631-3108

Project: **Vandenberg AFB IRP**
Log of Well No. **31-MW-4**

Location: **OU4 Site 31 Missile Silo 576-C, approx. 100 ft southwest of Bldg. 1895.**

Date Started: **12/3/93** Completed: **12/3/93**

Logged By: **J. Elliot** Checked By: **R. Horwath, RG**

Drilled By: **A. Simones, S/G Testing**

Drilling Equipment: **CME 75, 8"/10" HSA**

Sampling Equipment: **2" ID Split Spoon**

GS Elev.: **176.0** ft above MSL TD: **28.5 ft** bgs

4" PVC Blank Casing: from **0** ft bgs to **7** ft bgs

0.020 " Screened Casing: from **7** ft bgs to **27** ft bgs

Bentonite/Cement Grout: from **1.5** ft bgs to **1.8** ft bgs

Bentonite Transition Seal: from **1.8** ft bgs to **4.8** ft bgs

#3 Sand Filter Pack: from **4.8** ft bgs to **28.5** ft bgs

TOC Elev.: **178.99** ft above MSL

Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Well Construction	Sample Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
	<u>sand</u> very dark grayish brown (10YR 3/2), fine to medium grained, moderately sorted, subrounded, very loose, dry, dune sand.	SP		2 10 16	50	0/7.5	Start 0830. Sample V31MW4-0 sent for chemical tests.
	<u>sand</u> dark brown (10YR 3/3) fine to medium grained, moderately sorted, subrounded, medium dense, slightly moist, dune sand.					0/11.5	
	Same, except dark yellowish brown (10YR 4/6).			5 8 10	83	0/10.9	
5				6 9 14		0/4.6	Rig chatter. Samples V31MW4-4 and V31MW4-5 sent for chemical tests (replicates). No recovery from 7 to 8 feet.
				5 11 16			Sample V31MW4-9 sent for chemical tests.
10							No recovery from 11 to 13 feet.
	Same, except wet.			4 5 7	78	0/5.7	Sample V31MW4-14 sent for physical tests.
15							Unable to sample due to heaving sands from 14.5 to 28.5 ft.

11.4 ft bgs Groundwater depth during drilling

11.0 ft bgs Groundwater depth after well development on: 12/15/93

TC Number: **7001-41**

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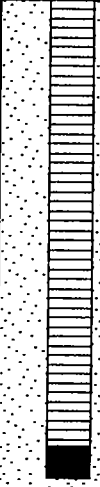

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Depth (ft bgs)	DESCRIPTION	Graphic/ USCS	Well Construction	Sample	Blow Counts Per 6"	Percent Recovery	PID(ppm) Amb/Smp	REMARKS
25	<u>sand</u> dark yellowish brown (10YR 4/6) fine to medium grained, moderately sorted, subrounded, medium dense, wet, dune sand.	SP						Heaving sands.
30								End 1140.
35								
40								